朝陽科技大學 097學年度第2學期教學大綱
Construction Materials 營建材料

當期課號	1607	**Course Number**	1607
授課教師	干裕成	**Instructor**	KAN,YU CHENG
中文課名	營建材料	**Course Name**	Construction Materials
開課單位	營建工程系(四日)二A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	2	**Credits**	2
課程目標	讓學生藉由解說與實際操作材料試驗，瞭解重要營建材料，包括模板、支撐、鋼筋鋼材、水泥、粗細骨材、附加劑、混凝土、磚製品、瀝青、瀝青混凝土和土壤試驗，及包括高性能混凝土配比設計實驗。	**Objectives**	The course covers the properties of the different construction materials which including steel, metal, concrete, timber, brick, asphalt, rock, composite material and so on. The course is concerned with the material properties of themselves which including elastic modulus, strength, stress and strain, fatigue, creep, and corrosion. The new materials and construction methods are briefly discussed in class.
教材	土木材料(作者：顏聰) Civil Engineering Materials(by Shan Somayaja)	**Teaching Materials**	Civil Engineering Materials(by Shan Somayaja)
成績評量方式	平時考(20%)、期中考(20%)、期末考(20%)、作業及報告(30%)及課堂表現(10%)	**Grading**	Quiz(20%), midterm(20%), final exam(20%), homework&report(30%), and other performance(10%)
教師網頁	_		
教學內容	介紹營建材料之特性，包括耐火性、吸音性等營建物理特性；並就土石材、混凝土材、填縫料、石膏及泥材、玻璃材、預鑄混凝土及磚製品、金屬製品 (鋼、鋁)、木材製品 (含紙)、聚合物、瀝青、高分子材料、屋面料、牆及樓版，進一步解說其材料特性及應用。	**Syllabus**	Introduction of properties of construction, including thermal resistance, sonic absportion ect.; the applications of those construction materials containing soil and rock, concrete, filler, paste, glass, precast concrete and brick, metals, wood, polymer, asphalt, wall and slab will be introduced in this class.

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